SINGLE-USE LAVATORY

Technical field

The invention refers to a single-use lavatory with application in the field of human necessities.

Prior art

The Japanese patent No.2002078642 describes a single-use lavatory, that includes a main body with replaceable bag in it, containing an absorbing agent. The main body holds by means of a hinge the closing part with a magnet plate for retaining the closing part to the body. The closing part sticks tightly to a ring, connected to the upper open part of the main body. Under the ring, a tightening part is provided, which after using the lavatory, isolates the lower part of the body from the upper open part. The bag is discarded after usage to a suitable and appropriate place.

An insufficiency of this solution is the availability of multiple-use parts, which require maintenance of the necessary hygiene (washing, disinfection, etc.), respectively. Besides, the structure of the portative lavatory is very complex for production and operation with a view to the large number of elements and the using of a separate closing device (cap).

Technical subject-matter of the Invention

The purpose of the present invention is to create a single-use lavatory, manufactured basically by single-use elements, with simplified design and suitable both for stationary sites and for vehicles as well.

The purpose has been achieved by creating a single-use lavatory, including a bag and a ring. The lavatory is characterized by that the ring is connected to the open end of the bag and consists of two hinged parts, joined so as to fold until entire sticking, whereupon they are locked to one another. Fixing pins are located in the spot of the two parts joining, allowing fixing of the two parts in one plane.

In one version of the lavatory execution a supporting plate is stuck along the sidewall of the bag to avert folding the bag after usage.

It is recommended the bag to contain an absorbing agent and/or infiltration matter.

The suitable shape of the ring is round or elliptical.

In another version of the lavatory execution the bag with the ring are placed in a stand, built by three sections, the first two of which are connected by means of a bending, fixing the two parts at 90^0 towards one another, and the second and the third part are connected by means of a bending, supporting the two parts at 180^0 towards one another, whereas there is a bed shaped in the second part, containing the ring.

In another version of execution the bag with the ring are placed in an opening, shaped in the seat of a small chair with extensible legs.

In another version of execution the bag with the ring are placed in the opening of a medicinal bed pan.

The advantages of the single-use lavatory according to the invention are in its structure made by elements, discarded after using which averts the necessity of additional cleaning and disinfection. What is more, the lavatory is structurally simplified, facilitating its operation and manufacturing.

Description of the enclosed figures:

Figure 1 shows the bag in unfolded condition.

Figure 2 illustrates the ring in unfolded condition.

Figure 3 presents an elliptical ring in unfolded condition.

Figure 4 illustrates the bag and an assembled round ring.

Figure 5 shows the bag and an assembled elliptical ring.

Figure 6 presents the lavatory according to the invention, assembled in a stand.

Figure 7 presents the lavatory according to the invention, assembled in a medicinal bed-pan.

Figure 8 shows the lavatory according to the invention, assembled in a children's chair with extensible legs.

Examples for execution of the invention:

The single-use lavatory (Fig.1 and Fig.2) is made by bag 1, whose upper open end holds ring 4. Ring 4 is shaped by two hinged parts 5 and 6, connected by lock pin 2. When folding the two parts to one another they are locked, for example by a groove and an edge, coming into the groove by snapping. Other ways for locking the two parts are possible, too, for example by a gag, coming into an opening, etc. In open position the two parts 5 and 6 are fixed in one plane by the fixing pin 2. Firm band 3 is stuck on the side wall of bag 1, holding the wall of bag 1 in such a way as not to fold after using. Bag 1 might contain an absorbing agent (gel) as well infiltrating matter such as cotton, woodwool or others similar. It is possible to use a combination of an absoring agent and infiltrating matter. The quantity of the absorbng agent is from 4 g to 10 g. Bag 1 can be made by PVC or processed cellulose.

Ring 4 can be round (Fig. 4) or elliptical (Fig. 3 and Fig. 5) and can be manufactured with different sizes – for children or adults.

Bag 1 with ring 4 might be placed in stand 7 (Fig. 6), built by three sections 11, 12, and 13, the first two of which are joined by means of bending 8, fixing the two parts at 90^0 towards one another, and the second and the third parts 12 and 13 are connected by bending 9, which holds the two parts at 180^0 towards one another. Bed 10 is shaped in the second part 12, which contains ring 4 and bag 1.

In the execution, shown in Fig.7, bag 1 with ring 4 are located in the opening of medicinal bed-pan 14.

The version of execution, presented in Fig.9, envisages assembly of bag 1 with ring 4 to chair with extensible legs 20.

Utilization of the invention

The single-use lavatory is used by unfolding ring 4 and fixing it in this position by pin 2. After using it according to its designation, ring 4 is folded and locked. Bag 1 with ring 4 can be additionally put in a self-sticking bag, which might be offered in a set with the other items. All this shall be discarded to a suitable place. The article can be used in a set with a scenter and a disinfectant. When necessary, it is always near at hand since its all

parts are placed in one bag. The invention is suitable for public bathrooms, during car driving, at hospitals and children's establishments, during hiking, etc.